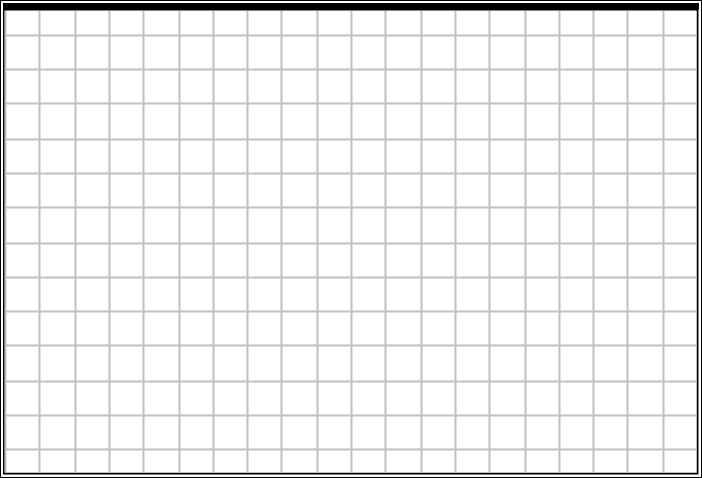
Unit 2 Day 10 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_

Using your graphing utility and graph the following functions. Sketch a complete graph and label the graph to indicate the window settings. Identify the information listed.

****1. **f(x) =-3x4+6x3-2x2+x-5**

Relative max(s):\_\_\_\_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_

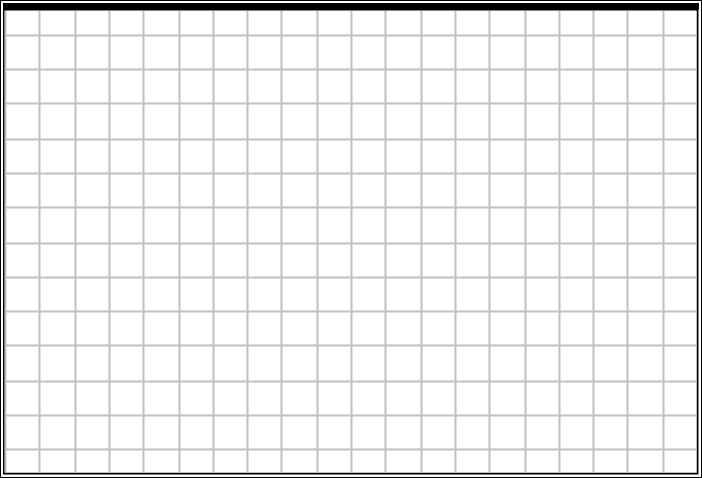
Relative min(s):\_\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Absolute max:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Increasing: \_\_\_\_\_\_\_\_\_\_\_

Absolute min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_\_\_\_

zeros: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ y-int: \_\_\_\_\_\_\_\_\_\_

2. **f(x) =-6x5+6x4+3x2-2x+6**

****

Relative max(s):\_\_\_\_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_

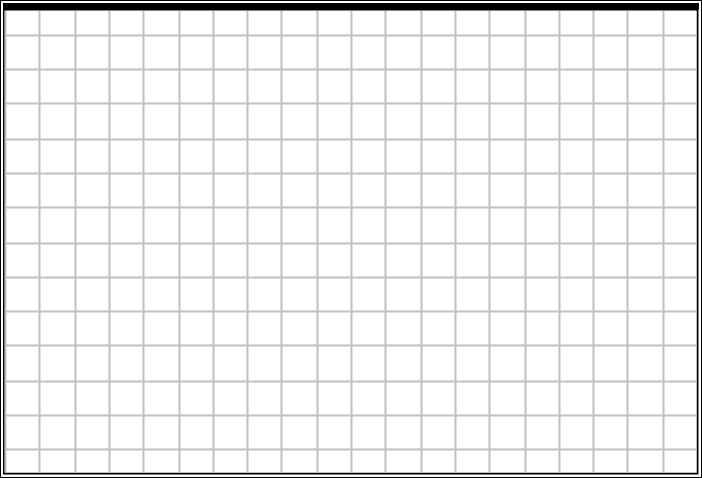
Relative min(s):\_\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Absolute max:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Increasing: \_\_\_\_\_\_\_\_\_\_\_

Absolute min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_\_\_\_

zeros: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ y-int: \_\_\_\_\_\_\_\_\_\_

3. **f(x) =6x3+4x2-10x+5**

****

Relative max(s):\_\_\_\_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_

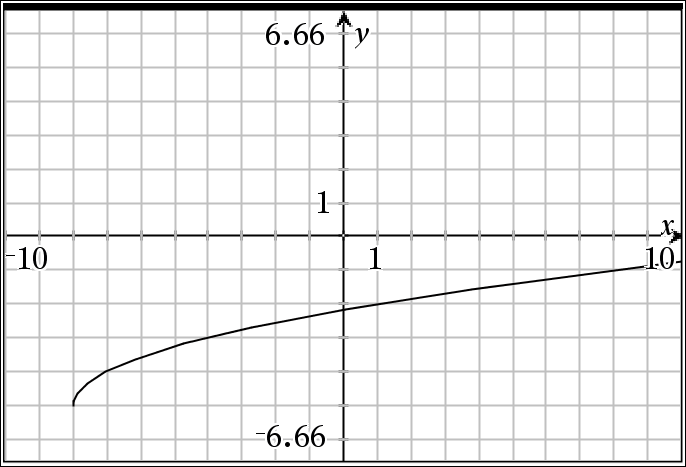
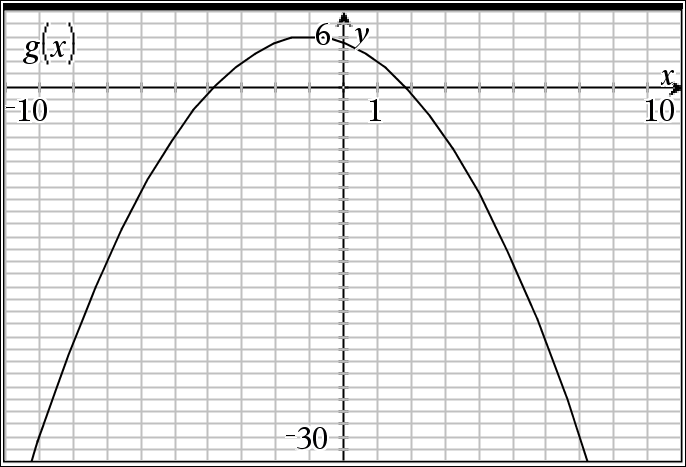
Relative min(s):\_\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Absolute max:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Increasing: \_\_\_\_\_\_\_\_\_\_\_

Absolute min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Decreasing:\_\_\_\_\_\_\_\_\_\_\_

zeros: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ y-int: \_\_\_\_\_\_\_\_\_\_

Use the graphs to find the following problems.



*f*(x)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | -4 | -2 | 1 | 5 |
| h(x) | 3 | 1 | -2 | 0 |

\*4. m(g(4)) \*5. h(-2)+f(-2) \*6. (m/f)(3) \*7. (gh)(5)

\*8. g(2) – f(2) \*9. h(-2) + m(-2) \*10. h(m(1)) \*11. h(f(-7))